

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
INDIANA, Northeast				
ST. JOSEPH COUNTY --- NORTH LIBERTY [41.53, -86.43]				
	06/17/14 19:06 EST		0	Hail (0.88 in)
	06/17/14 19:07 EST		0	Source: Public
The public reported hail to the size of nickels just north of North Liberty on State Route 23.				
ST. JOSEPH COUNTY --- NORTH LIBERTY [41.53, -86.43]				
	06/17/14 19:13 EST		0	Hail (1.75 in)
	06/17/14 19:14 EST		0	Source: Amateur Radio
Amateur radio operators relayed reports of hail ranging from the size of quarters to golf balls in an area from North Liberty to three miles north of North Liberty.				
ST. JOSEPH COUNTY --- 1.4 N NORTH LIBERTY [41.55, -86.43]				
	06/17/14 19:45 EST		0	Hail (1.25 in)
	06/17/14 19:46 EST		0	Source: Trained Spotter
A trained spotter reported half dollar size hail north of North Liberty.				
ST. JOSEPH COUNTY --- 0.5 E (SBN)MICHIANA ARPT S [41.70, -86.31]				
	06/17/14 20:11 EST		0	Hail (0.88 in)
	06/17/14 20:12 EST		0	Source: Trained Spotter
A trained spotter reported nickel sized hail.				
A highly unstable atmosphere was in place across the area with Most Unstable CAPES in excess of 4000 j/kg. Effective shear was sufficient, but on the lower end with 30 to 40 knots in the wake of a departing upper wave. A large elevated mixed layer helped keep most convection suppressed. A weak boundary was in place across northern parts of Indiana from earlier convection. A lake breeze from Lake Michigan developed and moved inland across LaPorte County, interacting with this the boundary and causing an isolated storm to eventually increase in intensity. Isolated large hail was noted with pockets of locally heavy rain.				
ST. JOSEPH COUNTY --- NORTH LIBERTY [41.53, -86.43]				
	06/18/14 12:56 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 12:57 EST		0	Source: Public
The public reported a tree was blown down onto County Road 4.				
ST. JOSEPH COUNTY --- 0.9 SE MISHAWAKA [41.66, -86.16]				
	06/18/14 13:10 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 13:11 EST		0	Source: Trained Spotter
A trained spotter reported several trees down.				
ST. JOSEPH COUNTY --- 0.5 W GLENWOOD [41.67, -86.08]				
	06/18/14 13:20 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 13:21 EST	1	0	Source: Broadcast Media
Local media reported a tree was blown down onto a van. The female driver was extricated from the van, suffering from minor injuries.				
ST. JOSEPH COUNTY --- 0.9 SE MISHAWAKA [41.66, -86.16]				
	06/18/14 13:23 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 13:24 EST		0	Source: Law Enforcement
Law enforcement officials reported numerous trees and utility lines down across much of the eastern half of the county.				
ELKHART COUNTY --- 0.5 W ELKHART [41.68, -85.98]				
	06/18/14 13:25 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 13:26 EST		0	Source: Public

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
The public reported a tree was blown down onto a home.				
ELKHART COUNTY --- 0.5 W ELKHART [41.68, -85.98]				
	06/18/14 13:29 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 13:30 EST		0	Source: Newspaper
Local newspapers reported trees and power lines were blown down across Elkhart.				
MARSHALL COUNTY --- INWOOD [41.32, -86.20]				
	06/18/14 13:34 EST		0	Thunderstorm Wind (EG 56 kt)
	06/18/14 13:35 EST		0	Source: Public
The public estimated wind gusts in the 60 to 65 mph range.				
ELKHART COUNTY --- 2.6 NNE FORAKER [41.55, -85.91]				
	06/18/14 13:38 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 13:39 EST		0	Source: Trained Spotter
A trained spotter reported large branches down on County Road 15, north of County Road 38.				
ELKHART COUNTY --- 0.5 E WATERFORD MILLS [41.55, -85.82]				
	06/18/14 13:40 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 13:41 EST		0	Source: Trained Spotter
A trained spotter reported a large tree fell onto a car. No details on the occupants were available.				
ELKHART COUNTY --- GOSHEN [41.58, -85.83]				
	06/18/14 13:42 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 13:43 EST		0	Source: Emergency Manager
Emergency management officials reported multiple trees and tree limbs down across the city.				
ELKHART COUNTY --- 2.6 E GOSHEN [41.58, -85.78]				
	06/18/14 13:50 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 13:51 EST		0	Source: Amateur Radio
Amateur radio operators reported two small pear trees were blown down.				
LAGRANGE COUNTY --- 0.7 S SHIPSEWANA [41.67, -85.58]				
	06/18/14 13:50 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 13:51 EST		0	Source: Public
The public reported multiple trees down across the area.				
KOSCIUSKO COUNTY --- 1.3 WNW WARSAW [41.24, -85.85]				
	06/18/14 13:53 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 13:54 EST		0	Source: Law Enforcement
Law enforcement officials reported a tree was blown down onto Wooster Road.				
KOSCIUSKO COUNTY --- 0.7 S MILFORD [41.41, -85.85]				
	06/18/14 14:02 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 14:03 EST		0	Source: Law Enforcement
Law enforcement officials reported utility lines were blown down.				
KOSCIUSKO COUNTY --- 0.5 E REDMOND PARK [41.38, -85.77]				
	06/18/14 14:11 EST		0	Thunderstorm Wind (EG 60 kt)
	06/18/14 14:12 EST		0	Source: Emergency Manager
Emergency management officials reported a tree was uprooted onto power lines in the Dewart Lake area.				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
LAGRANGE COUNTY --- 1.7 ESE PLATO [41.64, -85.30]				
	06/18/14 14:18 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 14:19 EST		0	Source: Emergency Manager
Emergency management officials reported utility lines and poles down at County Road 600 East and 100 South.				
LAGRANGE COUNTY --- 0.7 S LAGRANGE [41.64, -85.42]				
	06/18/14 14:20 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 14:21 EST		0	Source: Emergency Manager
Emergency management officials reported several large trees limbs were down across the county.				
NOBLE COUNTY --- 1.3 WNW INDIAN VLG [41.38, -85.65]				
	06/18/14 14:20 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 14:21 EST		0	Source: NWS Employee
A NWS employee reported a small tree was blown down at their residence.				
STEBEN COUNTY --- 0.5 E MOONLIGHT BAY [41.58, -85.02]				
	06/18/14 14:30 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 14:31 EST		0	Source: Emergency Manager
Emergency management officials reported utility lines down in the area. A horse stall was reported blown over.				
DE KALB COUNTY --- BUTLER [41.43, -84.87]				
	06/18/14 14:45 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 14:46 EST		0	Source: Emergency Manager
Emergency management officials reported trees and utility line down from Corunna to Butler.				
DE KALB COUNTY --- BUTLER [41.43, -84.87]				
	06/18/14 15:00 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 15:01 EST		0	Source: Emergency Manager
Emergency management officials reported a tree was blown down onto a residence.				
ALLEN COUNTY --- 1.3 WNW WAYNE DALE [41.03, -85.20]				
	06/18/14 15:15 EST		0	Thunderstorm Wind (MG 52 kt)
	06/18/14 15:16 EST		0	Source: Trained Spotter
A trained spotter measured a 60 mph wind gust just east of the Fort Wayne International Airport.				
ALLEN COUNTY --- 0.7 N FT WAYNE [41.08, -85.13]				
	06/18/14 15:20 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 15:21 EST		0	Source: Broadcast Media
Local media reports trees and utility lines are down near the intersection of Coliseum and Anthony Blvd.				
ALLEN COUNTY --- 0.7 N FT WAYNE [41.08, -85.13]				
	06/18/14 15:25 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 15:26 EST		0	Source: Trained Spotter
A trained spotter reported a medium size tree being split by the strong winds with a portion of it on the ground.				
ALLEN COUNTY --- 0.9 SW CONCORDIA GARDENS [41.11, -85.11]				
	06/18/14 15:25 EST		0	Thunderstorm Wind (EG 60 kt)
	06/18/14 15:26 EST		0	Source: Public
The public reported a large tree snapped at the base.				
ADAMS COUNTY --- 0.5 E PREBLE [40.83, -85.01]				

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/18/14 15:49 EST		0	Thunderstorm Wind (MG 54 kt)
	06/18/14 15:50 EST		0	Source: Trained Spotter

A trained spotter measured a wind gust to 62 mph.

ADAMS COUNTY --- 0.9 NW DECATUR [40.84, -84.94]

06/18/14 15:53 EST	0	Thunderstorm Wind (EG 50 kt)
06/18/14 15:54 EST	0	Source: Emergency Manager

A tree was reported blown down one mile northwest of Decatur by emergency management officials.

WHITE COUNTY --- 0.5 W MONTICELLO [40.75, -86.76]

06/18/14 21:52 EST	0	Thunderstorm Wind (EG 50 kt)
06/18/14 21:53 EST	0	Source: State Official

Law enforcement officials reported trees down across the county.

CASS COUNTY --- 0.7 S LAKE CICOTT [40.76, -86.52]

06/18/14 21:57 EST	0	Thunderstorm Wind (EG 50 kt)
06/18/14 21:58 EST	0	Source: Emergency Manager

Emergency management officials reported trees were blown down near US-24 and County Road 800 West in Lake Cicott.

MIAMI COUNTY --- PERU [40.75, -86.07]

06/18/14 22:30 EST	0	Thunderstorm Wind (EG 50 kt)
06/18/14 22:31 EST	0	Source: Emergency Manager

Emergency management officials reported a tree was blown down onto power lines.

GRANT COUNTY --- 1.5 NNW UPLAND [40.49, -85.49]

06/19/14 03:27 EST	0	Thunderstorm Wind (EG 50 kt)
06/19/14 03:28 EST	0	Source: State Official

Law enforcement officials reported a tree was blown down onto a power line.

Strong mesoscale convective vortex (MCV) moved out of northern Illinois into northern Indiana, with a line of thunderstorms trailing the feature. An outflow boundary moved south out of Lower Michigan into the area. These features entered an unstable atmosphere, with upwards of 4000 j/kg of CAPE across far northern Indiana. Numerous storms developed across the area and moved east. Sporadic wind damage was reported with the largely outflow dominant north-south line of storms as it moved across the area. The greatest concentration of damage occurred across St. Joseph and Elkhart counties where some minor injuries were reported as tree limbs fell onto vehicles.

LA PORTE COUNTY --- 1.0 E TRACY [41.48, -86.66]

06/23/14 14:43 CST	0	Thunderstorm Wind (EG 50 kt)
06/23/14 14:44 CST	0	Source: Public

The public reported at least one large tree limb and scattered tree limbs of various sizes blown down by the strong winds.

NOBLE COUNTY --- 2.9 WSW LAOTTO [41.26, -85.25]

06/23/14 16:35 EST	0	Thunderstorm Wind (EG 55 kt)
06/23/14 16:36 EST	0	Source: Broadcast Media

Local media reported some roof and panel damage to a barn as well as some tree damage.

ALLEN COUNTY --- 1.5 NNW HUGO [41.07, -85.19]

06/23/14 16:43 EST	0	Hail (0.75 in)
06/23/14 16:44 EST	0	Source: Trained Spotter

Weak surface low pressure was centered in the western Great Lakes. While some upper level support was entering the region, shear profiles kept thunderstorms somewhat disorganized. A few clusters of thunderstorms took on bowing characteristics, causing small areas of wind damage.

LA PORTE COUNTY --- 0.5 E SPRINGVILLE [41.68, -86.72]

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/30/14 19:26 CST		0	Thunderstorm Wind (EG 52 kt)
	06/30/14 19:27 CST		0	Source: Trained Spotter

A trained spotter estimated wind gusts to 60 mph.

LA PORTE COUNTY --- 0.7 S MICHIGAN CITY [41.71, -86.90]

06/30/14 19:30 CST	0	Thunderstorm Wind (EG 60 kt)
06/30/14 19:31 CST	0	Source: Public

The public reported a two foot diameter tree being snapped at the base.

LA PORTE COUNTY --- 1.2 SW MILL CREEK [41.57, -86.55]

06/30/14 19:44 CST	0	Thunderstorm Wind (EG 50 kt)
06/30/14 19:45 CST	0	Source: Public

The public reported downed tree limbs and power lines.

ST. JOSEPH COUNTY --- 0.5 E NEW CARLISLE [41.70, -86.51]

06/30/14 20:50 EST	0	Hail (1.25 in)
06/30/14 20:51 EST	0	Source: Public

The public reported hail from the size of quarters to nearly half dollars.

ST. JOSEPH COUNTY --- 0.7 N SOUTH BEND [41.68, -86.25]

06/30/14 20:55 EST	0	Thunderstorm Wind (EG 60 kt)
06/30/14 20:56 EST	0	Source: State Official

Law enforcement officials reported trees and power lines down on the west side of South Bend, especially in the Edison Road area.

LA PORTE COUNTY --- 0.8 SE PINHOOK [41.56, -86.86], 1.1 ESE PINHOOK [41.56, -86.85]

06/30/14 22:11 CST	0	Tornado (EF1, L: 0.26 mi , W: 200 yd)
06/30/14 22:12 CST	0	Source: NWS Storm Survey

A NWS storm survey of damage confirmed a brief tornado reaching EF 1 intensity near Pinhook. Severe tree damage occurred at a cluster of residences on the southwest side of the intersection of US-2 and South Wozniak Road. Several large trees, some over 50 feet tall, were uprooted or twisted. A 2 story 25 foot by 60 foot barn was destroyed with the debris thrown to the northeast. The tornado continued quickly south causing additional tree damage before rapidly dissipating. Maximum winds are estimated at 105 mph.

LA PORTE COUNTY --- 0.5 E SPRINGVILLE [41.68, -86.72]

06/30/14 22:18 CST	0	Thunderstorm Wind (EG 61 kt)
06/30/14 22:19 CST	0	Source: Trained Spotter

A trained spotter estimated winds to 70 mph.

LA PORTE COUNTY --- 1.4 SE SOUTH LA PORTE [41.56, -86.73], 2.2 SW MONROE MANOR [41.56, -86.70]

06/30/14 22:22 CST	0	Thunderstorm Wind (EG 74 kt)
06/30/14 22:23 CST	0	Source: NWS Storm Survey

A survey of damage was performed north of Kingsbury along and either side of US -35. A detached garage was destroyed at a residence. A swath of corn, at least a quarter mile wide, was completely flattened adjacent to this building. Winds were estimated in the 80 to 85 mph range.

LA PORTE COUNTY --- 2.2 ENE UNION MILLS ARPT [41.48, -86.74], 2.6 E TRACY [41.48, -86.63]

06/30/14 22:22 CST	0	Thunderstorm Wind (EG 70 kt)
06/30/14 22:27 CST	0	Source: NWS Storm Survey

A NWS survey of damage in the Kingsford Heights area revealed a microburst began just to the west of the town and expanded east. An area of trees was found either snapped or uprooted in an easterly direction through Kingsford Heights. This swath of wind expanded in width and eventually spawned a EF-1 tornado east of town. The straight line winds were estimated at around 80 mph.

LA PORTE COUNTY --- 0.2 WSW TRACY [41.48, -86.68], 2.5 SSW DILLON [41.48, -86.59]

06/30/14 22:24 CST	0	Tornado (EF1, L: 4.72 mi , W: 200 yd)
06/30/14 22:28 CST	0	Source: NWS Storm Survey

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A NWS survey of damage east of Kingsford Heights revealed damage consistent with a tornado , embedded within a larger swath of straight line winds. The tornado tracked rapidly east through mainly wooded areas causing widespread snapped or uprooted trees along its path. Trees fell onto several homes, especially along South County Road 300 East. Maximum winds were estimated at around 95 mph.				

STARKE COUNTY --- 3.4 NW HAMLET [41.42, -86.64], 2.6 WNW KOONTZ LAKE [41.43, -86.55]

06/30/14 22:25 CST	0	Tornado (EF1, L: 4.93 mi , W: 400 yd)
06/30/14 22:28 CST	0	Source: NWS Storm Survey

A NWS storm survey confirmed damage consistent with a EF 1 tornado touching down near the intersection of North County Road 300 East and East County Road 800 North. Extensive tree damage occurred along the track with several trees falling onto homes. A barn was destroyed near County Road 700 East and Robbins Road. Multiple center pivot irrigation systems were flipped. Maximum winds were estimated around 100 mph.

STARKE COUNTY --- 1.6 W KOONTZ LAKE [41.42, -86.53], 1.1 NE KOONTZ LAKE LAKE [41.43, -86.47]

06/30/14 22:29 CST	0	Tornado (EF1, L: 3.43 mi , W: 400 yd)
06/30/14 22:32 CST	0	Source: NWS Storm Survey

A NWS survey of damage confirmed a strong EF 1 tornado traveled across mainly wooded areas of far northeastern Starke county. Touchdown occurred along County Road 800 east of County Road 850 East where several trees suffered limb damage. The tornado continued towards the northeast and slowly gained strength and reached peak intensity as it approached and crossed into Marshall county north of Koontz Lake. A quarter mile swath of healthy 18 to 24 inch diameter trees were snapped and uprooted (DI: TH DOD: 4). Maximum winds were estimated at around 110 mph. The total distance the tornado was on the ground across Starke and Marshall counties was 4.9 miles.

PULASKI COUNTY --- 1.0 E WINAMAC [41.05, -86.60]

06/30/14 22:30 CST	0	Thunderstorm Wind (EG 65 kt)
06/30/14 22:31 CST	0	Source: State Official

Law enforcement officials reported numerous trees down across northern parts of the county, especially north of Winamac.

LA PORTE COUNTY --- 1.5 WNW BELFAST [41.63, -86.76]

06/30/14 22:37 CST	0	Thunderstorm Wind (EG 60 kt)
06/30/14 22:38 CST	0	Source: Public

The public reported several trees and tree limbs down around Pine Lake.

MARSHALL COUNTY --- 3.5 WNW TYNER [41.43, -86.47], 2.5 WNW TYNER [41.44, -86.44]

06/30/14 23:32 EST	0	Tornado (EF1, L: 1.42 mi , W: 400 yd)
06/30/14 23:33 EST	0	Source: NWS Storm Survey

A NWS storm survey confirmed a strong EF 1 tornado exited Starke county, north of Koontz Lake along County Line Road and Starke County Road 900 North where extensive tree damage occurred. As the tornado moved northeast it weakened, producing more sporadic areas of tree damage before dissipating in a grove of trees just east of Union Road. The tornado traveled a total of 4.9 miles across Starke and Marshall counties. Maximum winds were estimated at around 110 mph near the county line.

MARSHALL COUNTY --- 1.7 SSE DONALDSON [41.35, -86.44], 0.9 NNE PLYMOUTH [41.36, -86.31]

06/30/14 23:35 EST	0	Tornado (EF1, L: 6.85 mi , W: 150 yd)
06/30/14 23:42 EST	0	Source: NWS Storm Survey

A NWS storm survey found damage consistent with an EF-1 tornado. The tornado touched down just south of Donaldson where it caused extensive damage to hardwood trees. The tornado moved east and heavily damaged two residences on a farm on Sycamore Road, just south of the railroad tracks. The tornado continued to produce extensive tree damage as it tracked east-northeast into Plymouth to south of the Lear Corporation. Several trees were either topped or snapped with an empty semi-trailer being flipped. The tornado continued northeast with widespread mixed hardwood and softwood trees being snapped and minor structural damage to the Behavior Science Building on North Oak road. The tornado caused partial uplift of the northwest side of the roof and collapsed the interior cinder block wall on the east side of the Department of Transportation garage , just south of US-30 before lifting. Maximum winds were estimated at 105 mph.

MARSHALL COUNTY --- 0.8 SE PLYMOUTH MUNI ARPT [41.36, -86.29], 0.8 SE PLYMOUTH MUNI ARPT [41.36, -86.29]

06/30/14 23:41 EST	0	Tornado (EF1, L: 0.16 mi , W: 50 yd)
06/30/14 23:42 EST	0	Source: NWS Storm Survey

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
A NWS storm survey confirmed a brief EF-1 tornado touched down near the intersection of Lilac Road and Plymouth Goshen Trail , just northeast of Plymouth. Widespread hardwood tree damage was noted with several uprooted and snapped trees. A small shed was also flattened at a residence . As the circulation moved northeast it shifted a barn off its foundation and caused widespread tree damage in a grove of trees before lifting on the other side of the tree grove. Winds were estimated at 95 mph. While this tornado was in close proximity to the longer tracked Plymouth tornado that occurred west of US-30, it was determined by radar evidence and ground truth to be a separate circulation.				

ST. JOSEPH COUNTY --- 0.5 E (SBN)MICHIANA ARPT S [41.70, -86.31]				
	06/30/14 23:43 EST		0	Thunderstorm Wind (MG 59 kt)
	06/30/14 23:44 EST		0	Source: ASOS

The Automated Weather station at South Bend Regional Airport measured a 68 mph wind gust.

ST. JOSEPH COUNTY --- 1.5 E SOUTH BEND [41.67, -86.22]				
	06/30/14 23:43 EST		0	Thunderstorm Wind (EG 65 kt)
	06/30/14 23:44 EST		0	Source: Amateur Radio

Amateur radio operators reported several trees blown down along Greenlawn Road near the zoo.

ST. JOSEPH COUNTY --- 0.5 NE SOUTH BEND [41.67, -86.24], 1.2 WNW MISHAWAKA [41.67, -86.19]				
	06/30/14 23:45 EST		0	Thunderstorm Wind (EG 70 kt)
	06/30/14 23:47 EST		0	Source: NWS Storm Survey

A swath of damage was surveyed along Jefferson Boulevard from the St. Joseph River east to just south of Bethel College. Many trees were uprooted along this path, consistent with straight line winds estimated to 80 mph.

ST. JOSEPH COUNTY --- 0.7 N SOUTH BEND [41.68, -86.25]				
	06/30/14 23:45 EST		0	Thunderstorm Wind (EG 55 kt)
	06/30/14 23:46 EST		0	Source: Trained Spotter

A trained spotter reported tree limbs down at a residence. One landed on a vehicle. No damage estimates were available.

MARSHALL COUNTY --- 0.9 SE LAPAZ [41.46, -86.31]				
	06/30/14 23:47 EST		0	Thunderstorm Wind (EG 60 kt)
	06/30/14 23:48 EST		0	Source: Emergency Manager

Emergency management officials reported multiple trees, tree limbs, power lines and poles down across the county.

MARSHALL COUNTY --- BREMEN [41.45, -86.15]				
	06/30/14 23:52 EST		0	Thunderstorm Wind (EG 60 kt)
	06/30/14 23:53 EST		0	Source: Public

The public reported several trees down as well as at least one power pole in the Bremen area.

MARSHALL COUNTY --- 0.9 NE TIPPECANOE [41.21, -86.11]				
	06/30/14 23:54 EST		0	Thunderstorm Wind (EG 60 kt)
	06/30/14 23:55 EST		0	Source: Emergency Manager

Emergency management officials reported trees down.

A line of severe thunderstorms developed in eastern Iowa during the afternoon hours of June 30th. Plenty of instability and moisture was available for the line to mature into a severe bow-echo with the bulk of this racing northwest of the area into Wisconsin and Central Lower Michigan. The southern flank of this line did briefly take on bowing characteristics and produce gusty winds over southern Lake Michigan into portions of northwestern Indiana and far southwestern Lower Michigan before dissipating. Behind this line, a much stronger line of thunderstorms rapidly developed on a pre-frontal trough in northern Illinois. This line entered a more favorable environment with deep layer shear to 50 knots and a rapidly increasing low level jet to 50 knots. As this line raced into northwestern Indiana during the late evening hours, several stronger circulations were noted along the leading edge. There were multiple tornado confirmations and swaths of extensive wind damage. The second event continued into July 1st with additional wind damage and confirmed tornadoes occurring during the early morning hours.

LAKE MICHIGAN

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Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- MICHIGAN CITY C-MAN STATION (MCYI3) [41.73, -86.91]				
	06/23/14 15:15 EST	0		Marine Thunderstorm Wind (EG 37 kt)
	06/23/14 15:16 EST	0		Source: C-MAN Station
A wind gust to 43 mph was recorded at the Michigan City marine weather observation site.				
Weak surface low pressure was centered in the western Great Lakes. Thunderstorms formed over southern Lake Michigan and then moved east onshore, causing gusty winds.				
MICHIGAN CITY IN TO NEW BUFFALO MI COUNTY --- MICHIGAN CITY C-MAN STATION (MCYI3) [41.73, -86.91]				
	06/30/14 20:00 EST	0		Marine Thunderstorm Wind (MG 43 kt)
	06/30/14 20:01 EST	0		Source: C-MAN Station
A 49 mph wind gust was recorded at the Michigan City GLERL station.				
NEW BUFFALO TO ST JOSEPH MI COUNTY --- ST JOSEPH BUOY (45026) [41.98, -86.62]				
	06/30/14 20:30 EST	0		Marine Thunderstorm Wind (MG 39 kt)
	06/30/14 20:31 EST	0		Source: Buoy
A buoy located west of Cook Nuclear Plant recorded a 45 mph wind gust.				
A line of severe thunderstorms developed in eastern Iowa during the afternoon hours of June 30th. Plenty of instability and moisture was available for the line to mature into a severe bow echo with the bulk of this racing northwest of the area into Wisconsin and Central Lower Michigan. The southern flank of this line did briefly take on bowing characteristics and produce gusty winds over southern Lake Michigan before dissipating.				
MICHIGAN, Extreme Southwest				
ST. JOSEPH COUNTY --- 0.7 N THREE RIVERS [41.94, -85.63]				
	06/18/14 12:45 EST	0		Lightning
	06/18/14 12:46 EST	0		Source: Newspaper
Local media reported a lightning strike caused a fire at an apartment complex in Three Rivers . The fire was mainly confined to the attic area, but extensive smoke and water damage occurred. A fire fighter suffered minor injuries while in the building when the ceiling collapsed . No damage estimate was available.				
ST. JOSEPH COUNTY --- 0.7 N MENDON [42.01, -85.45]				
	06/18/14 13:00 EST	0		Thunderstorm Wind (EG 50 kt)
	06/18/14 13:01 EST	0		Source: Emergency Manager
Emergency management officials reported a tree was blown down onto a utility line.				
CASS COUNTY --- EDWARDSBURG [41.80, -86.08]				
	06/18/14 13:15 EST	0		Thunderstorm Wind (EG 55 kt)
	06/18/14 13:16 EST	0		Source: Emergency Manager
Emergency management officials reported multiple trees were blown down in town.				
HILLSDALE COUNTY --- 5.1 NNE PRATTVILLE [41.85, -84.37]				
	06/18/14 13:28 EST	0		Hail (0.75 in)
	06/18/14 13:29 EST	0		Source: Public
The public reported dime size hail along US 127.				
CASS COUNTY --- JONES [41.90, -85.80]				
	06/18/14 13:30 EST	0		Thunderstorm Wind (EG 50 kt)
	06/18/14 13:31 EST	0		Source: Trained Spotter
A trained spotter reported three trees were blown down, with two of them onto vehicles.				

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Strong mesoscale convective vortex (MCV) moved out of northern Illinois into northern Indiana, with a line of thunderstorms trailing the feature. An outflow boundary moved south out of Lower Michigan into the area. These features entered an unstable atmosphere, with upwards of 4000 j/kg of CAPE across southern Lower Michigan. Numerous storms developed across the area and moved east. Sporadic wind damage was reported with the largely outflow dominant north-south line of storms as it moved across the area.				
BERRIEN COUNTY --- 0.5 E BUCHANAN [41.83, -86.36]				
	06/23/14 16:10 EST	0		Thunderstorm Wind (EG 50 kt)
	06/23/14 16:11 EST	0		Source: Trained Spotter
Trained spotters reported several six inch diameter tree limbs down.				
CASS COUNTY --- 0.5 W DOWAGIAC [41.98, -86.11]				
	06/23/14 16:38 EST	0		Thunderstorm Wind (EG 56 kt)
	06/23/14 16:39 EST	0		Source: Public
The public estimated wind gusts to 65 mph.				
CASS COUNTY --- 0.5 W DOWAGIAC [41.98, -86.11]				
	06/23/14 16:38 EST	0		Thunderstorm Wind (EG 60 kt)
	06/23/14 16:39 EST	0		Source: Law Enforcement
County officials reported trees and tree limbs down throughout the county.				
BERRIEN COUNTY --- 1.1 SSW HARBERT [41.86, -86.64], 0.5 SW STEVENSVILLE [42.02, -86.53], 3.4 NE BERRIEN CENTER [41.98, -86.22], 2.4 ENE BERTRAND [41.78, -86.23]				
	06/23/14 16:39 EST	0		Flash Flood (due to Heavy Rain)
	06/23/14 19:45 EST	0		Source: Emergency Manager
Water was reported on many roadways across mainly the southern half of the county . The hardest hit areas were from Stevensville to Buchanan to Niles. Some vehicles were stranded in the high water with depths of 6 inches to nearly a foot in some locations. Damage estimates were not available.				
CASS COUNTY --- 0.9 SW CASSOPOLIS [41.91, -86.01]				
	06/23/14 16:45 EST	0		Thunderstorm Wind (EG 60 kt)
	06/23/14 16:46 EST	0		Source: State Official
Law enforcement officials reported trees down across the eastern part of the county. Many roads are flooded.				
ST. JOSEPH COUNTY --- 0.5 W WHITE PIGEON [41.80, -85.64]				
	06/23/14 17:20 EST	0		Thunderstorm Wind (EG 50 kt)
	06/23/14 17:21 EST	0		Source: Amateur Radio
Amateur radio operators reported power lines down from tree limbs impacting the lines.				
ST. JOSEPH COUNTY --- 0.9 NE OAKWOOD [41.79, -85.54]				
	06/23/14 17:25 EST	0		Thunderstorm Wind (EG 50 kt)
	06/23/14 17:26 EST	0		Source: State Official
Law enforcement officials reported a tree branch down onto power lines on US 12 near Klinger Lake.				
CASS COUNTY --- 3.4 NE BERRIEN CENTER [41.98, -86.22], 2.4 ENE BERTRAND [41.78, -86.23], 10.1 ESE JERRY TYLER MEML ARP [41.80, -86.05], 10.9 ENE JERRY TYLER MEML ARP [41.93, -86.05]				
	06/23/14 17:27 EST	0		Flash Flood (due to Heavy Rain)
	06/23/14 19:45 EST	0		Source: 911 Call Center
Water was reported on many roadways across mainly the western quarter of the county . The hardest hit areas were from Dowagiac south to Niles. Some vehicles were stranded in the high water with depths of 6 inches to nearly a foot in some locations. Damage estimates were not available.				
Weak surface low pressure was centered in the western Great Lakes. While some upper level support was entering the region, shear profiles kept thunderstorms somewhat disorganized. A few clusters of thunderstorms took on bowing characteristics, causing small areas of wind damage.				
BERRIEN COUNTY --- 0.7 S STEVENSVILLE [42.01, -86.52]				

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
	06/30/14 20:26 EST		0	Thunderstorm Wind (EG 50 kt)
	06/30/14 20:27 EST		0	Source: Public

The public reported several tree branches down across the area.

BERRIEN COUNTY --- 0.9 NE NEW BUFFALO [41.79, -86.74]

06/30/14 20:36 EST	0	Thunderstorm Wind (EG 55 kt)
06/30/14 20:37 EST	0	Source: Amateur Radio

Amateur radio operators reported a handful of trees and power lines down.

BERRIEN COUNTY --- 0.9 NW BRIDGMAN [41.94, -86.56]

06/30/14 20:37 EST	0	Hail (0.75 in)
06/30/14 20:38 EST	0	Source: Amateur Radio

CASS COUNTY --- 1.7 WNW LA GRANGE [41.96, -86.08]

06/30/14 20:55 EST	0	Thunderstorm Wind (EG 55 kt)
06/30/14 20:56 EST	0	Source: Broadcast Media

Local media reported several trees were blown down, with some blocking roadways.

BERRIEN COUNTY --- 0.7 S STEVENSVILLE [42.01, -86.52]

06/30/14 23:18 EST	0	Thunderstorm Wind (EG 55 kt)
06/30/14 23:19 EST	0	Source: Public

The public reported tree branches and power lines down along the lake shore areas.

BERRIEN COUNTY --- 0.5 E BUCHANAN [41.83, -86.36]

06/30/14 23:32 EST	0	Thunderstorm Wind (MG 50 kt)
06/30/14 23:33 EST	0	Source: Trained Spotter

A trained spotter measured a 58 mph wind gust.

BERRIEN COUNTY --- 0.5 W BERRIEN SPGS [41.95, -86.34]

06/30/14 23:55 EST	0	Thunderstorm Wind (EG 60 kt)
06/30/14 23:56 EST	0	Source: Trained Spotter

Trained spotters reported at least 12 trees down between Berrien Springs and Stevensville.

A line of severe thunderstorms developed in eastern Iowa during the afternoon hours of June 30th. Plenty of instability and moisture was available for the line to mature into a severe bow-echo with the bulk of this racing northwest of the area into Wisconsin and Central Lower Michigan. The southern flank of this line did briefly take on bowing characteristics and produce gusty winds over southern Lake Michigan into portions of northwestern Indiana and far southwestern Lower Michigan before dissipating. Behind this line, a much stronger line of thunderstorms rapidly developed on a pre-frontal trough in northern Illinois. This line had much more favorable parameters to work with deep layer shear to 50 knots and a rapidly increasing low level jet to 50 knots. As this line raced into northwestern Indiana during the late evening hours, several stronger circulations were noted along the leading edge that lead to multiple tornado confirmations and swaths of at times extensive wind damage. The second event continued into July 1st with additional wind damage and confirmed tornadoes occurring during the early morning hours.

OHIO, Northwest

WILLIAMS COUNTY --- 3.3 SW MONTPELIER [41.55, -84.65]

06/18/14 15:00 EST	0	Thunderstorm Wind (EG 55 kt)
06/18/14 15:01 EST	0	Source: Emergency Manager

Emergency management officials reported a large tree was blocking both lanes of a road southwest of Montpelier.

WILLIAMS COUNTY --- 2.1 E MELBERN [41.47, -84.61]

06/18/14 15:01 EST	0	Thunderstorm Wind (EG 50 kt)
06/18/14 15:02 EST	0	Source: Emergency Manager

Storm Data and Unusual Weather Phenomena - June 2014

Location	Date/Time	Deaths & Injuries	Property & Crop Dmg	Event Type and Details
Emergency management officials reported a tree was blown down across a local road.				
FULTON COUNTY --- 0.5 W WAUSEON [41.55, -84.14]				
	06/18/14 15:35 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 15:36 EST		0	Source: Trained Spotter
A trained spotter reported multiple trees were blown down.				
WILLIAMS COUNTY --- 0.9 SW PULASKI [41.51, -84.51]				
	06/18/14 15:41 EST		0	Thunderstorm Wind (EG 55 kt)
	06/18/14 15:42 EST		0	Source: Emergency Manager
Emergency management officials reported a utility pole was snapped northeast of Bryan.				
HENRY COUNTY --- TEXAS [41.42, -83.95]				
	06/18/14 15:45 EST		0	Thunderstorm Wind (EG 50 kt)
	06/18/14 15:46 EST	1	0	Source: Emergency Manager
Emergency management officials reported a tree was blown down near the intersection of County Road 424 and County Road 4A. The tree was reported to have landed on a car, but no further details were available.				
Strong mesoscale convective vortex (MCV) moved out of northern Illinois into southern Lower Michigan, with a line of thunderstorms trailing the feature. An outflow boundary moved south out of Lower Michigan into the area. These features entered an unstable atmosphere, with upwards of 4000 j/kg of CAPE across northwestern Ohio. Numerous storms developed across the area and moved east. Sporadic wind damage was reported with the largely outflow dominant north-south line of storms as it moved across the area.				
WILLIAMS COUNTY --- 1.4 N BRYAN [41.49, -84.55]				
	06/23/14 12:45 EST		0	Thunderstorm Wind (EG 60 kt)
	06/23/14 12:46 EST		0	Source: Emergency Manager
Emergency management officials reported six to eight utility poles down along State Route 15.				
WILLIAMS COUNTY --- BRYAN [41.47, -84.55]				
	06/23/14 12:45 EST		0	Thunderstorm Wind (EG 52 kt)
	06/23/14 12:46 EST		0	Source: Trained Spotter
A trained spotter estimated wind gusts to 60 mph.				
HENRY COUNTY --- 0.7 S GERALD [41.44, -84.13]				
	06/23/14 13:25 EST		0	Thunderstorm Wind (EG 55 kt)
	06/23/14 13:26 EST		0	Source: Emergency Manager
Emergency management officials reported trees down near State Route 108 and County Road T.				
HENRY COUNTY --- 1.2 ESE NAOMI [41.47, -84.11]				
	06/23/14 13:25 EST		0	Thunderstorm Wind (EG 55 kt)
	06/23/14 13:26 EST		0	Source: Emergency Manager
Emergency management officials reported trees down near County Roads V and 13.				
VAN WERT COUNTY --- 2.9 NW MIDDLE PT [40.88, -84.47]				
	06/23/14 13:50 EST		0	Thunderstorm Wind (EG 50 kt)
	06/23/14 13:51 EST		0	Source: Emergency Manager
Emergency management officials investigated sightings of a funnel in the area of US 30 and east of Dog Creek Road. Five to twelve-inch diameter tree limbs were blown down and some topping of the trees was observed. Some lawn furniture was thrown several feet while others were untouched in the same area.				
Weak surface low pressure was centered in the western Great Lakes. While some upper level support was entering the region, shear profiles kept thunderstorms somewhat disorganized. A few clusters of thunderstorms took on bowing characteristics and caused small areas of wind damage.				